

Notice of Allowability

Application No.

09/721,713

Applicant(s)

PARK, JAE-HAN

Examiner

Longbit Chai

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview on 2/23/2007.
2. ☒ The allowed claim(s) is/are 1 and 3-6.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

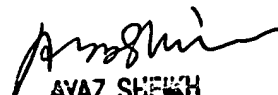
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 2/23/2007.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


AYAZ SHEKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In view of Appeal Brief filed on 12/8/2006 and an authorization for this Examiner's Amendment given in a telephone interview with Diallo T. Crenshaw (Reg. No. 52,778) on February 23, 2007, the claimed subject matters are further distinctly pointed out as patentable features to place the application in the condition for allowance.

This application has been amended as follows:

IN THE CLAIMS

Cancel claims 2 and 7 – 14.

Replace claims 1 and 6 as follows.

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Claim 1:

An authentication method for establishing a connection between devices that can wirelessly communicate data, the method comprising the steps of:

(a) sending a first authentication-request message to another device to perform an authentication procedure with the other device to which a connection is wanted;

(b) sending a predetermined message according to a current operation mode to the other device and storing the predetermined message when an authentication-response message to the first authentication-request message is received;

(c) after performing the step (b), checking whether a received first message is a response message corresponding to the predetermined message when the first message from the other device is received;

(d) sending a response message corresponding to a second authentication-request message to the other device when the result of checking in the step (c) indicates that the first message is the second authentication-request message;

(e) after performing the step (d), checking whether a second message is a response message corresponding to the predetermined message when the second message from the other device is received; and

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(f) finishing the authentication procedure when the result of checking in the step (e) indicates that the second message is a response message corresponding to the predetermined message,

wherein in the step (b), when the current operation mode is a pairing process, a message for generating a link key is sent as the predetermined message and stored, and when the current operation mode is not a pairing process, a message of connection-establishment-completion is sent as the predetermined message and stored; and the step (f) further comprises the sub-steps of:

(f1) generating a link key before finishing the authentication procedure when the current operation mode is a pairing process; and

(f2) finishing the authentication procedure and establishing a connection to the other device when the current operation mode is not a pairing process.

Claim 6:

The authentication method of claim 4, wherein in the step (b), ~~when the current operation mode is a pairing process, a message for generating a link key is sent as the predetermined message and stored, and when the current~~ operation mode is not a pairing process, a message of connection-establishment-completion is sent as the predetermined message and stored; and

the step (g) further comprises the sub-steps of:

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(g1) generating a link key before finishing the authentication procedure when the current operation mode is a pairing process; and

(g2) finishing the authentication procedure and establishing a connection to the other device when the current operation mode is not a pairing process.

Allowable Subject Matter

Claims 1 and 3 – 6 are allowed.

The following is an examiner's statement of reasons for allowance:

The above mentioned claims are allowable over prior arts because the CPA (Cited Prior Art) of record fails to teach or render obvious the claimed limitations in combination with the specific added limitations recited in claims 1 and 3 – 6.

The prior arts on record fail to teach or suggest an authentication method for establishing a connection between devices that can wirelessly communicate data such as (a) sending a first authentication-request message to another device to perform an authentication procedure with the other device to which a connection is wanted; (b) sending a predetermined message according to a current operation mode to the other device and storing the predetermined message when an authentication-response message to the first authentication-request message is received; wherein in the step (b), when the current operation mode is a pairing process, a message for generating a link key is sent as the predetermined message and stored, and when the current operation mode is not

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a pairing process, a message of connection-establishment-completion is sent as the predetermined message and stored; and the step (f) further comprises the sub-steps of: (f1) generating a link key before finishing the authentication procedure when the current operation mode is a pairing process; and (f2) finishing the authentication procedure and establishing a connection to the other device when the current operation mode is not a pairing process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner can normally be reached on Monday-Friday 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information

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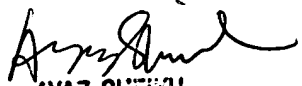
for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Longbit Chai

Examiner

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LBC


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